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PATENT

Applicant: Froman et al.

Serial No.: 10/714,320

Filed: November 14, 2003

Title: VIRTUAL DIAL IRRIGATION
CONTROLLER

Examiner: Unassigned

Group Art Unit: 2125

Atty Docket No.: 1506-315

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Commissioner for Patents
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Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. § 1.56, Applicant(s) submit herewith patents, publications, or other information of which they are aware that may be considered in connection with the above-referenced patent application. Submission of this Information Disclosure Statement is not intended to constitute an admission that any patent, publication or other information referred to herein is "material" to Applicants' invention as that term is currently defined in 37 C.F.R. § 1.56 (37 CFR § 1.97(h)).

In accordance with 37 C.F.R. § 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other relevant information exists.

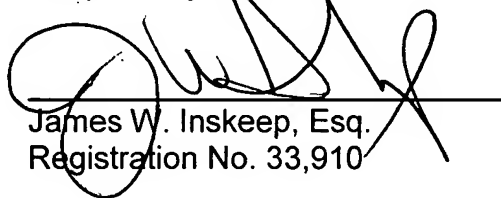
The filing of this information disclosure statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13-25, at 25.

A Patent and Trademark Office Form 1449 listing each of these informational items is enclosed along with a copy of each item.

This Information Disclosure Statement is being filed before the mailing date of the first Office Action issued on the merits of the subject application in accordance with 37 C.F.R. §1.97(b)(3). Also, pursuant to CFR 1.97(e)(1), the Information Disclosure Statement is being filed within the three month mailing date of the International Search Report. In the event that a first Office Action has been mailed to the undersigned prior to the mailing of this Information Disclosure Statement, the Commissioner is hereby authorized to charge payment of the applicable fee pursuant to 37 C.F.R. § 1.17(p) to Deposit Account No. 50-2809. A duplicate copy of this document is enclosed.

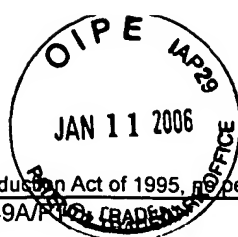
Respectfully submitted,

Jan 3, 2000
Date


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Substitute for form 1449A/PTO, TRADEMARK OFFICE

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Complete if Known

Sheet	1	of	4		
Application Number				10/714,320	
Filing Date				November 14, 2003	
First Named Inventor				Froman et al.	
Group Art Unit				2125	
Examiner Name				Unknown	
Attorney Docket Number				1506-315	

U.S. PATENT DOCUMENTS

Examiner Initials	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A1	US-6,772,050	08-03-2004	Williams et al.	
	A2	US-6,256,191	07-03-2001	Curlee	
	A3	US-5,956,248	09-21-1999	Williams et al.	
	A4	US-5,834,693	11-10-1998	Waddell et al.	
	A5	US-5,602,728	02-11-1997	Madden et al.	
	A6	US-5,479,338	12-26-1995	Ericksen et al.	
	A7	US-5,421,738	06-06-1995	Roberts	
	A8	US-5,414,618	05-09-1995	Mock et al.	
	A9	US-5,410,717	04-25-1995	Floro	
	A10	US-5,381,331	01-10-1995	Mock et al.	
	A11	US-5,293,554	03-08-1994	Nicholson	
	A12	US-5,278,749	01-11-1994	De Man	
	A13	US-5,272,620	12-21-1993	Mock et al.	
	A14	US-5,265,005	11-23-1993	Schmidt et al.	
	A15	US-5,262,936	11-16-1993	Faris et al.	
	A16	US-5,101,083	03-31-1992	Tyler et al.	
	A17	US-4,937,732	06-26-1990	Brundisini	
	A18	US-4,922,407	05-01-1990	Birk et al.	
	A19	US-4,852,051	07-25-1989	Mylne, III	
	A20	US-4,672,510	06-09-1987	Castner	
	A21	US-4,569,020	02-04-1986	Snoddy et al.	
	A22	US-4,242,721	12-30-1980	Krolak et al.	
	A23	US-4,152,750	05-01-1979	Bremenour et al.	
	A24	US-4,090,764	05-23-1978	Malsby et al.	
	A25	US-3,869,854	03-11-1975	Church	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS, SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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				Group Art Unit	2125
				Examiner Name	Unknown
Sheet	2	of	4	Attorney Docket Number	1506-315

FOREIGN PATENT DOCUMENTS								
Examiner Initials	Cite No. ¹	Foreign Patent Document			Date of Publications of Cited Documents MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Office ³	Number ⁴	Kind Code ⁵				

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	C1	THE STRONG BOX, Stainless Steel Controller Enclosure, 10 pgs., V.I.T. Products, Inc., San Diego, CA	
	C2	RAIN BIRD, Central Control System, Maxicom, June, 1994, Pgs. 2-8, Rain Bird Sales, Inc., Tucson, AZ	
	C3	RAIN BIRD, Components of the Maxicom System, February 9, 1994, Page 3.2, Section 3, US	
	C4	RAIN BIRD, Central Control System, Maxicom – Guide to Operations, February, 1993, TOC and Pgs. 5.4-1-2; 5.4-41-42; 7.2-1-2; Rain Bird Sales, Inc., Tucson, AZ	
	C5	RAIN BIRD, Maxicom Guide to Operations, October, 1994, Chapter 7, US	
	C6	RAIN BIRD, Central Computer Control System, Maxicom, "Landscape Irrigation Products, 1993-1994 Catalog", Pgs. 98-99, US	
	C7	TORO, Motorola MIR 5000 Radio-Based Irrigation Central Computer Control System, 1991, Pgs. 1-4, The Toro Company, Riverside, CA	
	C8	MOTOROLA, MIR5000 System Planner, March 8, 1993, TOC and Pgs. 1-42, The Toro Company, Riverside, CA	
	C9	MOTOROLA, Motorola MIR5000 System Features, November 1991, 20 Pgs., San Diego Turf & Irrigation, San Diego, CA	
	C10	MOTOROLA, Motorola MIR-5000 Component Descriptions, February 16, 1993, 5 pgs., Megeath	
	C11	MOTOROLA, New Members to the MIR5000 Family, Irrinet and Scorpio, 14 pgs., Toro, Riverside, CA	
	C12	TORO/MOTOROLA, General Description – IRRInet, 24 pgs., Toro, Riverside, CA	
	C13	MOTOROLA, IRRInet Owner's Manual, 1992, TOC and Secs. 1-3, Motorola Communications Israel Ltd., Tel Aviv, Israel	

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				First Named Inventor	Froman et al.
				Group Art Unit	2125
				Examiner Name	Unknown
Sheet	3	of	4	Attorney Docket Number	1506-315

	C14	MOTOROLA, IRRInet Component Descriptions, February 16, 10 Pgs., 1993, Megeath	
	C15	MOTOROLA, Irrigation Field Unit Owner's Manual, TOC and Secs. 1-3, 1992, Technical Writing Services, Motorola, Inc., Schaumburg, IL	
	C16	MOTOROLA, Scorpion AC, TOC and Secs. 1-3, September, 1994, Technical Writing Services, Motorola, Inc., Schaumburg, IL	
	C17	MOTOROLA, IRRInet General Description Service Manual, 16 pgs., 1993, Technical Writing Services, Motorola, Inc., Schaumburg, IL	
	C18	MOTOROLA Communications Sector, I/O Module 4 Digital Inputs/16 Solid-State Outputs, 1992, 12 pgs., Technical Writing Services, Motorola, Inc., Schaumburg, IL	
	C19	MOTOROLA, MIR5000C Quickstart and Reference Guide, February 1994, Technical Writing Services, Motorola, Inc., Schaumburg, IL	
	C20	MOTOROLA, MIR5000C Central System Operating Instructions, 1991, Technical Writing Services, Motorola Communications Israel Ltd., Tel Aviv, Israel	
	C21	MOTOROLA, MIR 5000C System Installation Section, 1989, Technical Writing Services, Motorola Communications Israel Ltd., Tel Aviv, Israel	
	C22	Koala-T Irrigation Controller Photos, P1010983 thru P1010989, Oasis Control Systems, Inc., Chatsworth, CA	
	C23	Expanded Light-Energized Installation, LEIT8000 Light Energized Irrigation Technology Control System Catalog, 01/1995, 1 page, SOLTROL (now DIG Corp.), USA	
	C24	Model 39624 Pedestal Mount Field Controller, Model 39625 Wall Mount Field Controller, Royal Coach/Buckner Catalog, 01/1983, 1 page, Litho, USA	
	C25	Sales Offices and Warehouses, Royal Coach/Buckner Catalog, 01/1983, 1 page, Sheet No. 280-286, Litho, USA	
	C26	Modular Solid State Controllers, Buckner Catalog, 05/1990, 8 pages, USA	
	C27	Features and Functions of the 39824/5 Field Controller, Buckner Catalog, 5 pages, USA	
	C28	PTC82 Professional Turf Controller 12 and 18 Stations, Oasis Controls Specification Sheet, 2 pages, OSS-007A (SP), Philmac PTY LTD, USA	
	C29	PTC83 Professional Turf Controller 24, 30, 36, 42 Stations, Oasis Controls Specification Sheet, 2 pages, OSS-008A (SP), Philmac PTY LTD, USA	
	C30	Landscaper Irrigation Controller 12 and 16 Stations, Oasis Controls Specification Sheet, 2 pages, OSS-005B, Philmac PTY LTD, USA	
	C31	PTC81 Professional Turf Controller 6 Station, Oasis Controls Specification Sheet, 2 pages, OSS-006A (SP), Philmac PTY LTD, USA	
	C32	Researchers Develop Automated Surface Irrigation System, NTIS Tech Notes, 1995, 1 page, NTN83-0860, NTIS, US Dept of Commerce, USA	
	C33	Maxicom Computer Control System, Rain Bird Catalog, 1990, 4 pages, Rain Bird Sprinkler Mfg. Corp, USA	

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				Group Art Unit	2125
				Examiner Name	Unknown
Sheet	4	of	4	Attorney Docket Number	1506-315

C34	Moody Automatic Controllers, Moody Catalog, 3 pages, Moody, USA	
C35	Modular Series Electronic Controllers, Buckner Catalog, 3 pages, USA	
C36	XKit Expander Module Kit (Series 8700), SOLATROL Catalog, 02/1995, 1 page, Solatrol Inc., USA	
C37	LEIT 8000 Universal Control Unit (LEIT 8000-2), SOLATROL Catalog, 02/1995, 1 page, Solatrol Inc., USA	
C38	Weather-matic 1990-91 Irrigation Equipment Catalog, 1990-91, 3 pages, Weather-matic, USA	
C39	Irrigation Equipment Catalog, 1995, 5 pages, Buckner, USA	
C40	1990 Irrigation Products, Toro Irrigation Products Catalog, 1990, 3 pages, Toro, USA	
C41	Pro 8430, 8420 & Pro 8900 Series Controllers, Nelson Irrigation Corp. Catalog, 4 pages, USA	
C42	Pro 8430 and 8420 Series Automatic Irrigation Controllers, L.R. Nelson Corp. Catalog, 1991, 2 pages, L.R. Nelson Corporation, USA	

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